



IPW RCE/2853

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REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

Address to:
Commissioner for Patents
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Application Number	09/807,061
Filing Date	07/09/2001
First Named Inventor	Christian Kratzsch et al.
Art Unit	2853
Examiner Name	Blaise L. Mouttet
Attorney Docket Number	STUR-35

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. Submission required under 37 CFR 1.114

- a. ☐ Previously submitted
- i. ☐ Consider the amendment(s)/reply under 37 CFR 1.116 previously filed on _____
(Any unentered amendment(s) referred to above will be entered).
- ii. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- iii. ☐ Other _____
- b. ☒ Enclosed
- i. ☒ Amendment/Reply
- ii. ☐ Affidavit(s)/Declaration(s)
- iii. ☐ Information Disclosure Statement (IDS)
- iv. ☐ Other

2. Miscellaneous

- a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
- b. ☐ Other _____

3. Fees

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

- a. ☒ The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. 16-0221
- i. ☐ RCE fee required under 37 CFR 1.17(e) 07/14/2004 SDIRETA1 00000125 03807061
- ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17) 01 FC:2801 385.00 GP
- iii. ☒ Other any deficiencies
- b. ☒ Check in the amount of \$ 385.00 enclosed
- c. ☐ Payment by credit card (Form PTO-2038 enclosed)

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (Print/Type)	Scott R. Foster	Registration No. (Attorney/Agent)	20,570
Signature	<i>Scott R. Foster</i>	Date	07/06/2004

CERTIFICATE OF MAILING OR TRANSMISSION

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EC/STUR35.RCE

STUR-35



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Christian Kratzsch et al.
Serial No.: 09/807,061
Filing Date: 07/09/2001
For: METHOD FOR SHAPING MATERIALS WITH
PLASMA-INDUCING HIGH-ENERGY RADIATION
Group Art Unit: 2853
Examiner: Blaise L. Mouttet
Attorney's Docket No.: STUR-35

Mail Stop Amendment
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James A. Sheridan

(NAME OF ATTORNEY)

(SIGNATURE)

July 6, 2004

(DATE OF SIGNATURE)

AMENDMENT TO THE CLAIMS

Claims 11-21 (canceled).

Claim 22 (new): A method for materials processing by plasma-
inducing high-energy radiation, the method comprising the steps
of:

STUR-35

directing plasma-inducing high-energy radiation in a first direction onto a material to be processed and establishing a vapor capillary in the material;

measuring simultaneously instantaneous intensity of the radiation within the vapor capillary in a plane of observation that is oriented transversely to the first direction and determining in the plane of observation spatial shapes of two spaced-apart peak-intensity regions (10,12) of the radiation emitted from the vapor capillary and of a minimum intensity region (11) that is formed between the two peak-intensity regions in the vapor capillary;

comparing the determined spatial shapes of the peak-intensity regions with predetermined region shapes; and

controlling a materials processing operation as a function of deviations of the determined shapes from the predetermined region shapes.